

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Currently Amended) A liquid crystal display device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;  
a driving circuit which performs image writing on the liquid crystal display;  
a power supply circuit which supplies electric power to the driving circuit, the power supply circuit including one element selected from the group consisting of a booster circuit and a DC/DC converter; [[and]]  
an operation section with which a user makes an input; and  
a controller which inactivates at least part of the power supply circuit after completion of the image ~~writing~~writing and which reactivates the inactivated part of the power supply circuit upon receiving an input from the operation section;  
wherein the liquid crystal display device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.
2. (Previously Presented) A liquid crystal display device according to claim 1, wherein, if the power supply circuit includes a booster circuit, the controller inactivates the booster circuit after completion of the image writing.
3. (Currently Amended) A liquid crystal display device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;  
a driving circuit which performs image writing on the liquid crystal display;

a data processing unit which is connected to the driving circuit, the data processing unit incorporating at least one central processing unit; [[and]]

an operation section with which a user makes an input; and

a controller which inactivates at least part of an internal circuit of the at least one central processing unit after completion of the image ~~writing~~writing and which reactivates the inactivated part of the internal circuit of the at least one central processing unit upon receiving an input from the operation section;

wherein the liquid crystal display device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the data processing unit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

4. (Previously Presented) A liquid crystal display device according to claim 3, wherein the at least one central processing unit is capable of operating in a sleep mode to inactivate part of the internal circuit by itself after completion of the image writing.

5. (Cancelled)

6. (Previously Presented) A liquid crystal display device according to claim 1, wherein the liquid crystal display uses liquid crystal which exhibits a cholesteric phase.

7. (Previously Presented) A liquid crystal display device according to claim 3, wherein:

the data processing unit incorporates a plurality of central processing units; and

the controller also inactivates at least part of an internal circuit of at least one of the central processing units after completion of the image writing.

8. (Previously Presented) A liquid crystal display device according to claim 1, wherein unchangeable information is displayed on the liquid crystal display.

9. (Previously Presented) A liquid crystal display device according to claim 1, further comprising an operation section with which a user is capable of making an input, wherein the image writing on the liquid crystal display is carried out in accordance with the input made with the operation section.

10. (Previously Presented) A liquid crystal display device according to claim 9, wherein inactivation of at least part of the power supply circuit is inhibited while an input is being continuously made with the operation section.

11. (Previously Presented) A liquid crystal display device according to claim 1, further comprising a receiving circuit which receives a signal from outside, wherein information about reception of a signal at the receiving circuit is displayed on the liquid crystal display.

12. (Previously Presented) A liquid crystal display device according to claim 1, wherein the controller inactivates at least part of the power supply circuit immediately after completion of the image writing.

13. (Previously Presented) A liquid crystal display device according to claim 1, wherein the controller inactivates at least part of the power supply circuit a specified time after completion of the image writing.

14. (Previously Presented) A liquid crystal display device according to claim 1, wherein the controller is capable of operating in a first mode to inactivate at least part of the power supply circuit immediately after completion of the image writing and in a second mode to inactivate at least part of the power supply circuit a specified time after completion of the image writing.

15. (Currently Amended) A portable electronic device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;

a driving circuit which performs image writing on the liquid crystal display;  
a power supply circuit which supplies electric power to the driving circuit, the power supply circuit including one element selected from the group consisting of a booster circuit and a DC/DC converter;

an operation section with which a user makes an input;

a controller which inactivates at least part of the power supply circuit after completion of the image ~~writing~~writing and which reactivates the inactivated part of the power supply circuit upon receiving an input from the operation section; and

a casing which encases the liquid crystal display, the driving circuit, the power supply circuit and the controller;

wherein the portable electronic device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

16. (Currently Amended) A method for driving a liquid crystal display device provided with a liquid crystal display which uses reflective type liquid crystal with a memory effect, said method comprising the step of:

after completion of image writing on the liquid crystal display, inactivating at least part of a power supply circuit which supplies electric power to a driving circuit which performs the image writing, the power supply circuit including one element selected from the group consisting of a booster circuit and a DC/DC converter; and

in response to an input made with an operation section by a user, reactivating the inactivated part of the power supply circuit;

wherein the liquid crystal display device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

17. (Previously Presented) A method for driving a liquid crystal display device according to claim 16, wherein at least part of the power supply circuit is inactivated immediately after completion of the image writing.

18. (Previously Presented) A method for driving a liquid crystal display device according to claim 16, wherein at least part of the power supply circuit is inactivated a specified time after completion of the image writing.

19. (Currently Amended) A portable electronic device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;  
a driving circuit which performs image writing on the liquid crystal display;  
a power supply circuit which supplies electric power to the driving circuit;  
an operation section with which a user makes an input;  
a controller which inactivates at least part of the power supply circuit after completion of the image ~~writing;~~writing and which reactivates the inactivated part of the power supply circuit upon receiving an input from the operation section; and  
a casing which encases the liquid crystal display, the driving circuit, the power supply circuit and the controller,  
wherein the controller also inactivates at least part of an internal circuit of a data processing unit after completion of the image ~~writing;~~ writing, and reactivates the inactivated part of the internal circuit of the data processing unit upon receiving an input from the operation section;  
wherein the portable electronic device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

20. (Currently Amended) A method for driving a liquid crystal display device provided with a liquid crystal display which uses reflective type liquid crystal with a memory effect, said method comprising the steps of:

after completion of image writing on the liquid crystal display, inactivating at least part of a power supply circuit which supplies electric power to a driving circuit which performs the image writing, the power supply circuit including one element selected from the group consisting of a booster circuit and a DC/DC ~~converter~~, and converter;

inactivating at least part of an internal circuit of a data processing unit which is connected to the driving circuit; and

in response to an input made with an operation section by a user, reactivating the inactivated part of the power supply circuit and the inactivated part of the internal circuit of the data processing unit;

wherein the liquid crystal display device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

21. (Previously Presented) A liquid crystal display device according to claim 7, wherein:

the controller inactivates at least part of an internal circuit of at least one of the central processing units and keeps the remaining one(s) of the central processing units active.

22. (Previously Presented) A liquid crystal display device according to claim 21 wherein:

the at least one central processing unit of which at least part of an internal circuit is inactivated by the controller is higher in processing ability than the remaining one(s) of the central processing units.

23. (Previously Presented) A portable electronic device according to claim 15, wherein:

the reflective type liquid crystal exhibits a cholesteric phase.

24. (Previously Presented) A portable electronic device according to claim 15, wherein:

the liquid crystal display includes a pair of substrates accommodating the reflective type liquid crystal therebetween.

25. (Currently Amended) A portable electronic device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;

a driving circuit which performs image writing on the liquid crystal display;

a power supply circuit which supplies electric power to the driving circuit;

an operation section with which a user makes an input;

a controller which inactivates at least part of the power supply circuit after completion of the image ~~writing~~writing and which reactivates the inactivated part of the power supply circuit upon receiving an input from the operation section; and

a casing which encases the liquid crystal display, the driving circuit, the power supply circuit and the controller,

wherein the liquid crystal display includes a pair of substrates accommodating the reflective type liquid crystal therebetween,

wherein at least one of the substrates is flexible,

wherein the portable electronic device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and

wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

26. (Previously Presented) A portable electronic device according to claim 24, wherein:

a plurality of resin pillars are provided between the substrates.

27. (Currently Amended) A portable electronic device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;

a driving circuit which performs image writing on the liquid crystal display;

a power supply circuit which supplies electric power to the driving circuit;

an operation section with which a user makes an input;

a controller which inactivates at least part of the power supply circuit after completion of the image ~~writing~~writing and which reactivates the inactivated part of the power supply circuit upon receiving an input from the operation section; and

a casing which encases the liquid crystal display, the driving circuit, the power supply circuit and the controller,

wherein the reflective type liquid crystal includes a plurality of display areas,

wherein the portable electronic device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and

wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

28. (Currently Amended) A liquid crystal display device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;

a driving circuit which performs image writing on the liquid crystal display;

a data processing unit which is connected to the driving circuit;

a power supply circuit which supplies electric power to the driving circuit and the data processing unit, the power supply circuit including one element selected from the



group consisting of a booster circuit and a DC/DC converter; [[and]]

an operation section with which a user makes an input; and

a controller which inactivates at least part of the power supply circuit and/or at least part of an internal circuit of the data processing unit after completion of the image writing, thereby inhibiting electric power supply to the liquid crystal ~~display;~~display, and  
which reactivates the inactivated part of the power supply circuit and/or the inactivated part of the internal circuit of the data processing unit upon receiving an input from the operation section;

wherein the liquid crystal display device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit and/or at least part of the data processing unit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

29. (Previously Presented) A liquid crystal display device according to claim 28, wherein:

power supply from the power supply circuit to the driving circuit is inhibited by the controller.

30. (Previously Presented) A liquid crystal display device according to claim 28, wherein:

the reflective type liquid crystal exhibits a cholesteric phase.

31. (Previously Presented) A portable electronic device according to claim 15, wherein the controller also inactivates at least part of an internal circuit of a data processing unit after completion of the image writing.

32. (Previously Presented) A method for driving a liquid crystal display device according to claim 16, further comprising the step of inactivating at least part of an internal circuit of a data processing unit which is connected to the driving circuit.

33. (Previously Presented) A portable electronic device according to claim 24, wherein at least one of the substrates is flexible.

34. (Previously Presented) A portable electronic device according to claim 15, wherein the reflective type liquid crystal includes a plurality of display areas.

35. (Currently Amended) A liquid crystal display device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;  
a driving circuit which performs image writing on the liquid crystal display in response to a received write command;  
a power supply circuit which supplies electric power to the driving circuit; [[and]]  
an operation section with which a user makes an input; and  
a ~~controller~~, controller which inactivates at least part of the power supply circuit after completion of the image ~~writing~~, writing and which reactivates the inactivated part of the power supply circuit upon receiving another write ~~command~~, command and/or upon receiving an input from the operation section;  
wherein the liquid crystal display device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

36. (Previously Presented) A liquid crystal display device according to claim 35, wherein the power supply circuit includes one element selected from a group consisting of a booster circuit and a DC/DC converter.

37. (Previously Presented) A liquid crystal display device according to claim 35, wherein the controller inactivates at least a part of the power supply circuit substantially immediately after completion of the image writing.

38. (Currently Amended) A portable electronic device comprising:

a liquid crystal display which uses reflective type liquid crystal with a memory effect;

a driving circuit which performs image writing on the liquid crystal display in response to receipt of a write command;

a power supply circuit which supplies electric power to the driving circuit;

an operation section with which a user makes an input;

a controller which inactivates at least part of the power supply circuit after completion of the image writing and which reactivates the inactivated part of the power supply circuit after another write command is ~~received~~received and/or after an input made with the operation section is received; and

a casing which encases the liquid crystal display, the driving circuit, the power supply circuit and the controller;

wherein the portable electronic device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

39. (Previously Presented) A portable electronic device according to claim 38, wherein the power supply circuit includes one element selected from the group consisting of a booster circuit and a DC/DC converter.

40. (Previously Presented) A portable electronic device according to claim 38, wherein the controller inactivates at least a part of the power supply circuit substantially immediately after completion of the image writing.

41. (Currently Amended) A method for driving a liquid crystal display device provided with a liquid crystal display which uses reflective type liquid crystal with a memory effect, said method comprising the step of:

after receiving a write command and completing image writing on the liquid crystal display, inactivating at least part of a power supply circuit which supplies electric

power to a driving circuit which performs image writing, and reactivating the inactivated part of the power supply circuit upon receipt of another write ~~command;~~command and/or upon receipt of an input from an operation section by a user;

wherein the liquid crystal display device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

42. (Previously Presented) A method for driving a liquid crystal display device according to claim 41, wherein the power supply circuit includes one element selected from the group consisting of a booster circuit and a DC/DC converter.

43. (Previously Presented) A method for driving a liquid crystal display device according to claim 41, wherein a controller inactivates at least a part of the power supply circuit substantially immediately after completion of the image writing.

44. (Currently Amended) A liquid crystal display device comprising:  
a liquid crystal display which uses reflective type liquid crystal with a memory effect;  
a driving circuit which performs image writing on the liquid crystal display in response to a received write command;  
a data processing unit which is connected to the driving circuit;  
a power supply circuit which supplies electric power to the driving circuit and the data processing ~~unit, and~~unit;

an operation section with which a user makes an input; and

a controller which inactivates at least part of the power supply circuit and/or at least part of an internal circuit of the data processing unit after completion of the image writing, thereby inhibiting electric power supply to the liquid crystal display, and thereafter reactivating the inactivated part of the power supply circuit and/or ~~at least the~~inactivated part of the internal circuit of the data processing unit after receipt of another

write ~~command~~; command and/or receipt of an input from the operation section;

wherein the liquid crystal display device is capable of detecting and accepting a write command to the liquid crystal display even while at least part of the power supply circuit and/or at least part of the data processing unit is inactive, and wherein the driving circuit is capable of performing image writing on the liquid crystal display in response to the write command.

45. (Previously Presented) A liquid crystal display device according to claim 44, wherein the power supply circuit includes one element selected from the group consisting of a booster circuit and a DC/DC converter.

46. (Previously Presented) A liquid crystal display device according to claim 44, wherein the controller inactivates at least a part of the power supply circuit and/or at least a part of the internal circuit of the data processing unit substantially immediately after completion of image writing.

47. (Previously Presented) A liquid crystal display device according to claim 1, wherein while the liquid crystal display which uses reflective type liquid crystal with a memory effect is not being supplied with power from the power supply circuit, the liquid crystal display continues displaying an image which was written thereon before the stoppage of power supply.

48. (Previously Presented) A portable electronic device according to claim 15, wherein while the liquid crystal display which uses reflective type liquid crystal with a memory effect is not being supplied with power from the power supply circuit, the liquid crystal display continues displaying an image which was written thereon before the stoppage of power supply.

49. (Previously Presented) A portable electronic device according to claim 19, wherein while the liquid crystal display which uses reflective type liquid crystal with a memory effect is not being supplied with power from the power supply circuit, the liquid

crystal display continues displaying an image which was written thereon before the stoppage of power supply.

50. (Previously Presented) A portable electronic device according to claim 25, wherein while the liquid crystal display which uses reflective type liquid crystal with a memory effect is not being supplied with power from the power supply circuit, the liquid crystal display continues displaying an image which was written thereon before the stoppage of power supply.

51. (Previously Presented) A portable electronic device according to claim 27, wherein while the liquid crystal display which uses reflective type liquid crystal with a memory effect is not being supplied with power from the power supply circuit, the liquid crystal display continues displaying an image which was written thereon before the stoppage of power supply.

52. (Previously Presented) A liquid crystal display device according to claim 35, wherein while the liquid crystal display which uses reflective type liquid crystal with a memory effect is not being supplied with power from the power supply circuit, the liquid crystal display continues displaying an image which was written thereon before the stoppage of power supply.

53. (Previously Presented) A portable electronic device according to claim 38, wherein while the liquid crystal display which uses reflective type liquid crystal with a memory effect is not being supplied with power from the power supply circuit, the liquid crystal display continues displaying an image which was written thereon before the stoppage of power supply.

54. (Previously Presented) A liquid crystal display device according to claim 44, wherein while the liquid crystal display which uses reflective type liquid crystal with a memory effect is not being supplied with power from the power supply circuit, the

liquid crystal display continues displaying an image which was written thereon before the stoppage of power supply.

55. (New) A liquid crystal display device according to claim 1, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

56. (New) A liquid crystal display device according to claim 3, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

57. (New) A portable electronic device according to claim 15, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

58. (New) A method according to claim 16, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

59. (New) A portable electronic device according to claim 19, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

60. (New) A method according to claim 20, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

61. (New) A portable electronic device according to claim 25, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

62. (New) A portable electronic device according to claim 27, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

63. (New) A liquid crystal display device according to claim 28, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

64. (New) A liquid crystal display device according to claim 35, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

65. (New) A portable electronic device according to claim 38, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

66. (New) A method according to claim 41, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

67. (New) A liquid crystal display device according to claim 44, wherein in accordance with an input made with the operation section, image writing on the liquid crystal display is performed.

68. (New) A liquid crystal display device according to claim 1, wherein:  
the operation section is a page forward key or a page backward key; and  
the driving circuit performs writing of a next page or a previous page in response to an input from the operation section.

69. (New) A liquid crystal display device according to claim 1, wherein:  
the operation section has a function of detecting a memory card inserted in the liquid crystal display device;  
the controller reactivates the inactivated part of the power supply circuit when the



operation section detects insertion of a memory card; and

the driving circuit performs writing of an image in the memory card.

70. (New) A display device for displaying image information comprising:  
a display which displays an image;  
a driving circuit which performs image writing on the display;  
a power supply circuit which supplies electric power to the driving circuit, the power supply circuit including one element selected from the group consisting of a booster circuit and a DC/DC converter;  
an operation section with which a user makes an input; and  
a controller which inactivates at least part of the power supply circuit after completion of the image writing and which reactivates the inactivated part of the power supply circuit;  
wherein the display device is capable of detecting and accepting an input from the operation section even while at least part of the power supply circuit is inactive;  
wherein the controller reactivates the inactivated part of the power supply circuit upon receiving the input from the operation section; and  
wherein the driving circuit performs image writing of an image in accordance with the input from the operation section.

71. (New) A display device according to claim 70, wherein the display has a memory effect and is capable of continuing to display an image while inactivation of at least part of the power supply circuit.